

Digital Still Camera

Technical Manual

Before operating the unit, please read this manual thoroughly and retain it for future reference.

DSC-QX30U

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WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.
- Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Sony.
- Dispose of used battery packs promptly as described in the instructions.

AC Adaptor

Use the nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using the apparatus.

For customers in the U.S.A. and CANADA

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.call2recycle.org/>

Caution: Do not handle damaged or leaking Lithium-Ion batteries.



Battery pack

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3 B/NMB-3 B

For Customers in the USA

If you have any questions about this product, you may call:

Sony Customer Information Center

1-800-222-SONY (7669)

The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity

Trade Name: SONY

Model No.: DSC-QX30U

Responsible Party: Sony Electronics Inc.

Address: 16530 Via Esprillo,

San Diego, CA 92127 U.S.A.

Telephone No.: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Europe

Notice for the customers in the countries applying EU Directives

Manufacturer: Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

For EU product compliance: Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

This product has been tested and found compliant with the limits set out in the EMC regulation for using connection cables shorter than 3 meters (9.8 feet).

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)



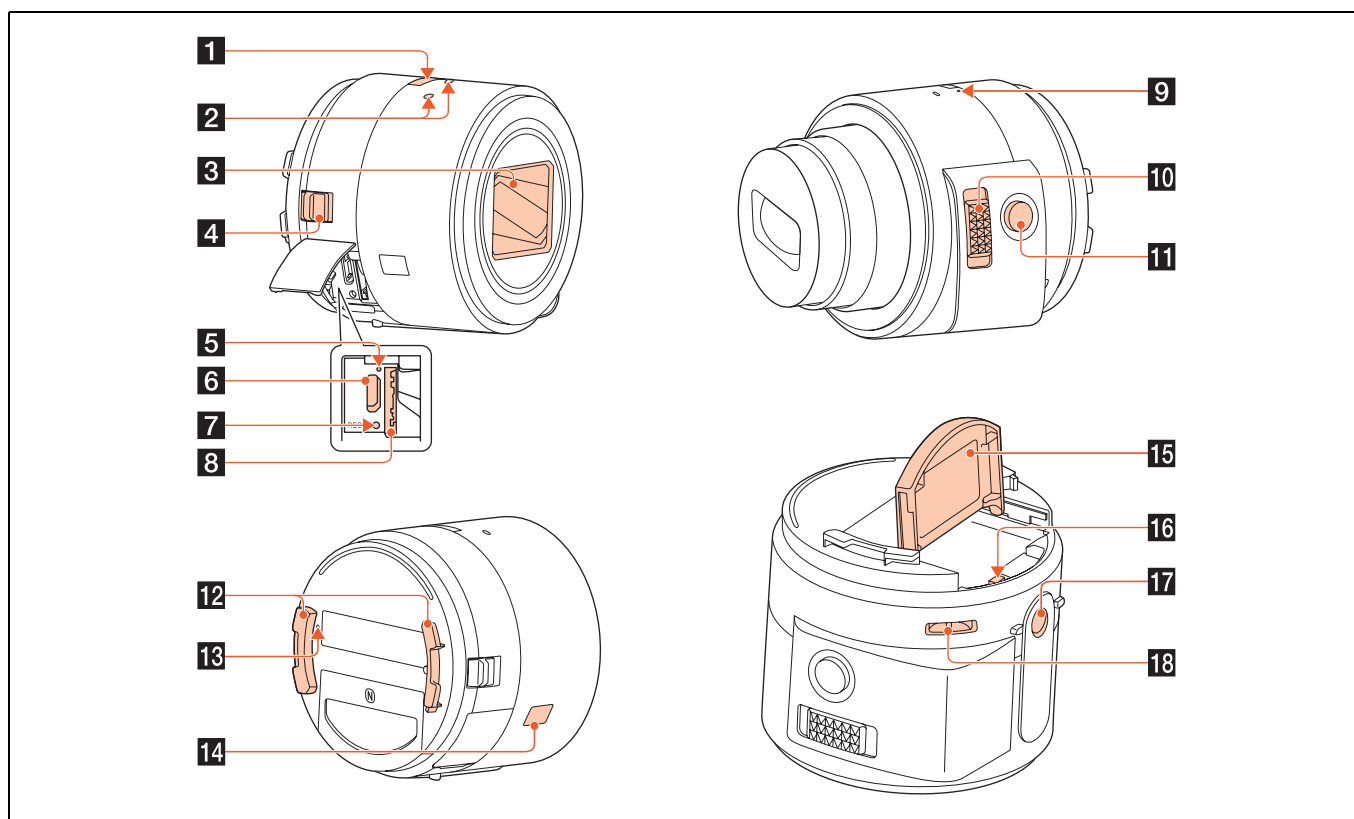
This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste.

On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

About the camera

Names of main parts



1 Power button

2 Microphone

3 Lens

4 Attachment removal lever

5 Access lamp

6 Multi terminal

You can connect devices that are compatible with the Micro-USB standard to this product.

7 RESET button

8 Memory card slot

9 Power/Charge/Movie lamp

Green: Power ON

Orange: Charging

Red: Recording a movie

10 Zoom lever


11 Shutter button


12 Attachment mounting portion

The attachment is not included in the camera when mounting the camera to a smartphone.

13 Speaker

14 Display panel

 : Indicates that a memory card is not inserted

 : Indicates remaining battery capacity

15 Battery cover

Rechargeable battery pack NP-BN1 (sold separately) can be used.

16 Wi-Fi button

This button does not function because this camera does not support Wi-Fi.

17 Tripod socket

Use a tripod with a screw length that is less than 5.5 mm ($7/32$ inches). Otherwise, the camera may be damaged because it cannot be securely fixed on a tripod with a screw length that is 5.5 mm ($7/32$ inches) or longer.

18 Hook for the wrist strap

Supplying power

By supplying power via the USB terminal of the host device, the camera can be used while saving the power of the battery. When you use host devices where the power supply capability from the USB is 1.5 A or more, you can use the camera without the battery, or shoot the images while supplying power to the battery.

Note

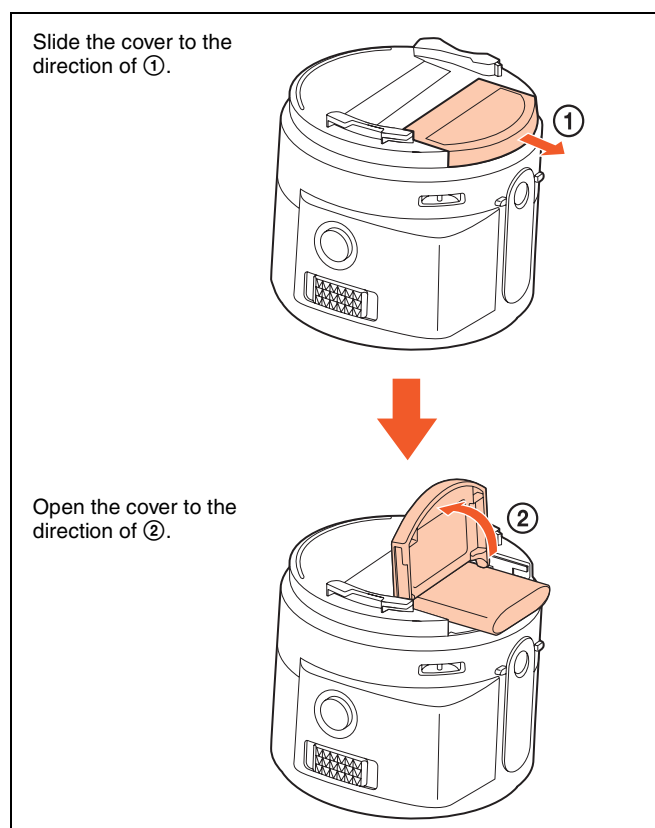
While supplying power, the remaining battery indicator on the display panel of the camera will disappear.
While the camera is turned off, the battery is charged.

Charging the battery

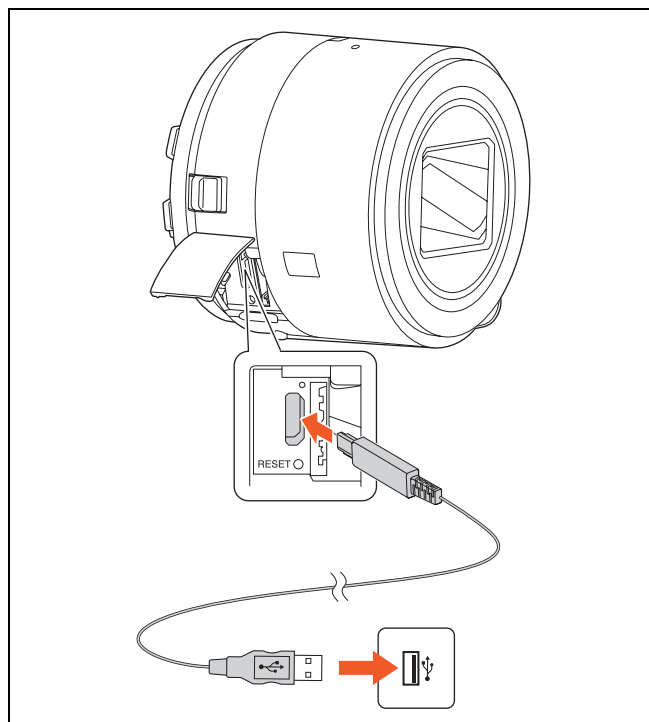
Insert the battery into the camera and charge.

- 1 Turn off the power of the camera.
- 2 Insert the battery into the camera.

How to open the battery cover:



- 3 Connect the multi terminal of the camera and the USB terminal of the host device by using the micro USB cable (sold separately).



- 4 Turn off the power of the camera.

Charge lamp

Light on: Charging

Light off: Charging is completed

Flashing: Charging error, or charging standby caused by charging at an unsuitable temperature range.

If you do not use a host device, use the AC adaptor AC-UD10 (sold separately).

Charging time (full charge)

The charging time is as follows:

Approx. 115 minutes

This time is that after using the battery pack (NP-BN1: sold separately) completely and charging the battery at a temperature of 25°C (77°F). Charging may take longer depending on the conditions or environment used.

Note

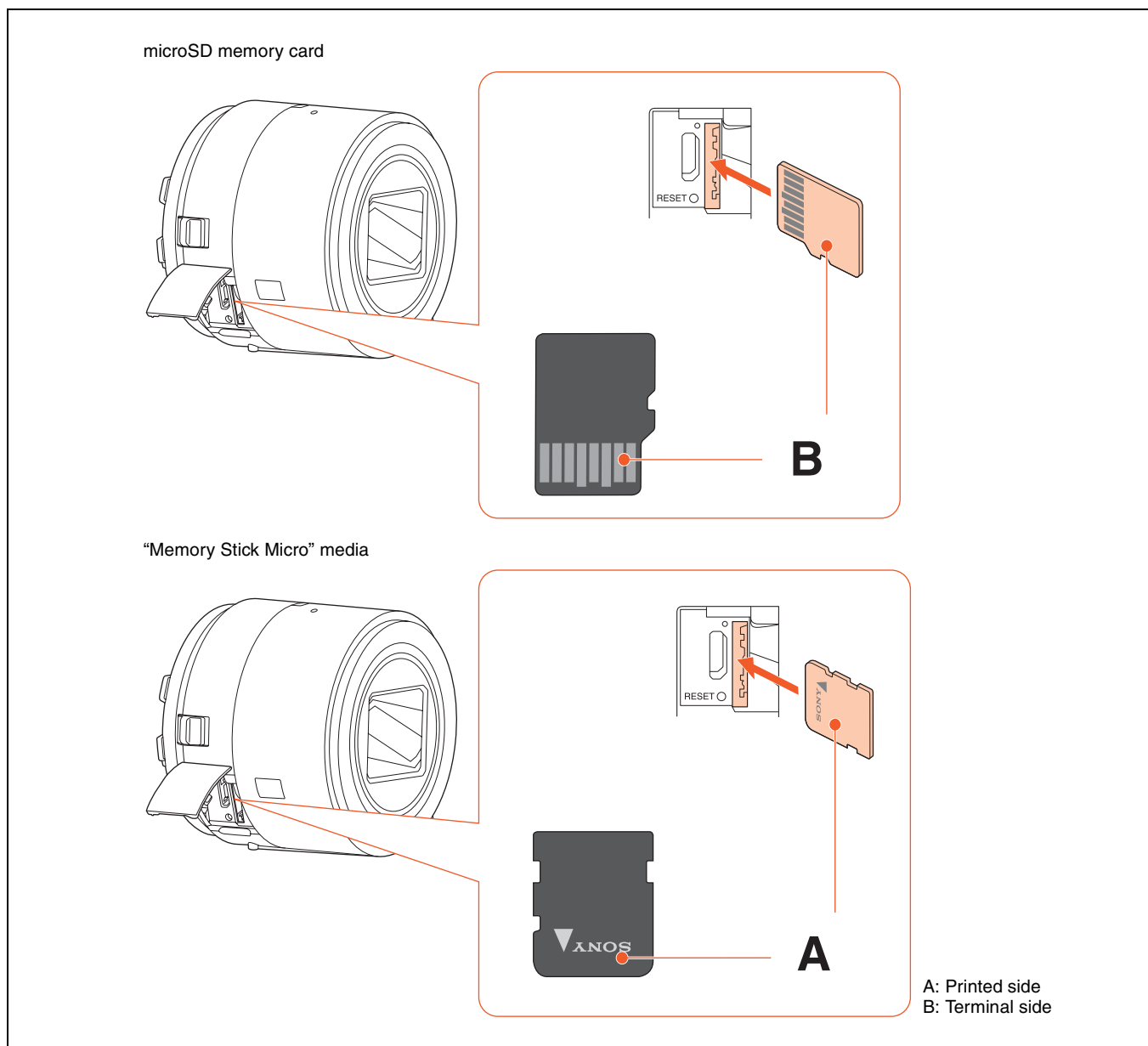
Charge the battery after turning off the camera. The battery is not charged if the camera is connected and the power is on.

Tip

When the charging lamp flashes and charging is not completed, remove the battery, then reinsert it.

Inserting a memory card


- 1 Open the cover and insert a microSD memory card or a “Memory Stick Micro” (M2) media.



- 2 Close the cover.

When you remove the memory card, make sure that the access lamp is not lit before pushing the memory card.

Note

When the indicator  (means a memory card is not inserted) appears on the display panel or the power lamp flashes in red, the orientation or direction that the memory card is inserted is not correct. Insert the memory card again in correct orientation.

About the supported functions

* indicates the default value.

	Function names	Functions
Shooting functions	Live View	-
	Still Capture	AF/AE Lock, Shutter Release
	Movie Recording	Start, Stop
	Zoom Mode	Optical Zoom, Clear Image Zoom, Optical Zoom + Clear Image Zoom*, Digital Zoom
	Zoom Control	Tele, Wide, Direct
	Exposure Mode	Manual Exposure (M), Program Auto (P), Aperture Priority (A), Shutter Priority (S), Intelligent Auto*, Superior Auto, Movie Intelligent Auto
	Self Timer	OFF*, 10 sec, 2 sec
	AF/AE Lock	Lock, Unlock*
	Focus Mode	Manual, Single-shot AF (AF-S)*, Continuous AF (AF-C)
	Exposure Compensation	Up, Down, Direct (–2.0 EV to +2.0 EV)
	Aperture Value (F Number)	Up, Down, Direct (F3.5 to F8)
	Shutter Speed	Up, Down, Direct (30" to 1/1600)
	ISO	Up, Down, Direct (80 to 3200, AUTO)
	White Balance	Auto*, Daylight, Incandescent, Fluorescent (Cool White, Day White, Daylight), Cloudy, Color Temperature Filter
	White Balance Initialize	-
	Image Size	L*, M, S, VGA
	Aspect Ratio	3:2*, 16:9, 4:3
	Compression Setting	STD, FINE*
	Movie Size	HQ (1920 × 1080 30p)*, PS (1920 × 1080 60p)
	Storage to Save Still Images	Internal Media, Host*
Image transfer function	Download Still images and Movies	
General functions	Date / Time Setting	-
	Media Information	-
	Media format	-
	Firmware Update via USB	Save Firmware to SD Card, Update Firmware from SD Card
Status confirmation functions	Zoom Position (Percentage)	-
	Caution / Error	-
	Remaining Shootable Images	-
	Recordable Time of Movies	-
Power mode functions	Stand-by mode	-
	Power Off	-

Using a memory card (sold separately)

By inserting a memory card into the camera, the following functions can be set/used.

- Shooting movies
- Shooting still images
- Firmware update function

Number of still images that can be saved

Still image size

When [Aspect Ratio] is set to [3:2]

L: 18M 5184 × 3456 pixels

M: 8.9M 3648 × 2432 pixels

S: 4.5M 2592 × 1728 pixels

When [Aspect Ratio] is set to [4:3]

L: 20M 5184 × 3888 pixels

M: 10M 3648 × 2736 pixels

S: 5.0M 2592 × 1944 pixels

VGA 640 × 480 pixels

When [Aspect Ratio] is set to [16:9]

L: 15M 5184 × 2920 pixels

M: 7.5M 3648 × 2056 pixels

S: 2.1M 1920 × 1080 pixels

This is the number of images that can be saved in one memory card in the camera.

The number of still images that can be saved may vary depending on the shooting conditions and the memory card.

When [Image Size] is set to [L], [Aspect Ratio] is set to [4:3], and [Compression Setting] is set to [FINE]

2 GB: 200 images

4 GB: 400 images

8 GB: 810 images

16 GB: 1,600 images

32 GB: 3,250 images

64 GB: 6,500 images

Recordable time of movies

This shows the approximate maximum recording times that can be saved in one memory card. These are the total times for all movie files.

The recordable time may vary depending on the shooting conditions and the memory card.

When [Movie Size] is set to [PS (1920 × 1080 60p)]

2 GB: 9 minutes

4 GB: 15 minutes

8 GB: 35 minutes

16 GB: 1 hour 20 minutes

32 GB: 2 hours 40 minutes

64 GB: 5 hours 20 minutes

When [Movie Size] is set to [HQ (1920 × 1080 30p)]

2 GB: 15 minutes

4 GB: 30 minutes

8 GB: 1 hour

16 GB: 2 hours 5 minutes

32 GB: 4 hours 10 minutes

64 GB: 8 hours 25 minutes

Continuous shooting time is possible for approximately 29 minutes (the product specification limit) for one shot. When the recording system is set to PS, continuous shooting time is possible for approximately 15 minutes (limited by the 4 GB file size restriction).

Usage time and number of images that can be recorded with the battery

The following numbers are the usage time and number of images that can be recorded with a charged battery pack (sold separately).

Shooting still images: Approx. 200 images

Typical movie shooting: Approx. 25 minutes

Continuous movie recording: Approx. 45 minutes.

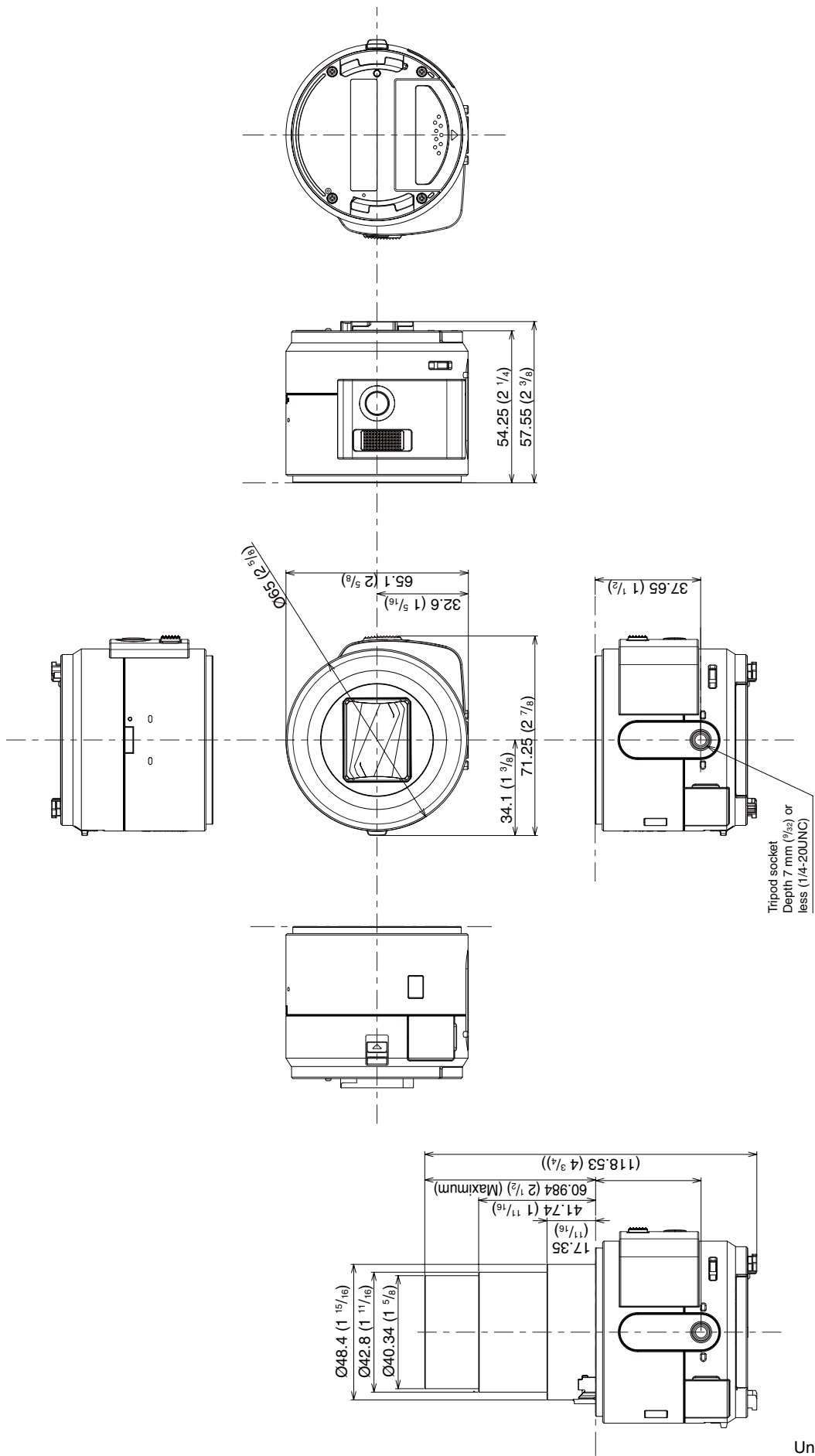
Notes

- The number of images is an approximate number when shooting with a fully charged battery. The number may be less depending on the circumstances.
- The number of images is when shooting under the following conditions:
 - Using a Sony microSD memory card (sold separately).
 - Temperature of 25°C (77°F)
- The number of still images that can be recorded is based on the CIPA standard, and is for shooting under the following conditions: (CIPA: Camera & Imaging Products Association)
 - Shooting once every 30 seconds.
 - The zoom is switched alternately between the W and T ends every time.
 - The power turns on and off once every ten times.
- The maximum movie time that can be recorded is based on the CIPA standard, and is for recording under the following conditions:
 - Recording settings: HQ
 - Typical movie shooting: shooting, zooming, shooting standby, and repeatedly turning the power on/off.
 - Continuous movie recording: if continuous recording reaches the limit (29 minutes), recording will be restarted. Other operations, such as zooming, are not performed.
- It may differ depending on the usage environment or the host device used.

Specifications

DSC-QX30U main unit	
Image device	7.82 mm (1/2.3 type) Exmor R CMOS sensor
Total number of pixels of the camera	Approx. 21.1 Megapixels
Number of effective pixels of the camera	Approx. 20.4 Megapixels
Lens	Sony G 30× zoom lens, f = 4.3 mm - 129 mm (24 mm - 720 mm (equivalent to 35 mm film if still image size is 4:3)), F3.5 (W) - F6.3 (T)
While recording movies (16:9)	26.5 mm - 1,080 mm
Image stabilization	Optical
Exposure control	Automatic exposure, Aperture priority, Shutter Speed Priority, Manual exposure
White balance	Automatic, Daylight, Cloudy, Incandescent, Fluorescent lamp (Cool White/Day White/Daylight)
File format	Still images: JPEG (DCF, Exif, MPF Baseline) compliant Movies (MP4 format): Video: MPEG-4 AVC/H.264 Audio: MPEG-4 AAC-LC 2ch
Live View Image	<ul style="list-style-type: none"> By continuously receiving the XGA-sized JPEG files that are continuously created in the camera on a host device, the live view images can be displayed. The maximum frame rate is 30 fps.
Recording media	“Memory Stick Micro” media, microSD memory card
Input and Output terminals	Multi terminal*: USB communication USB communication: Hi-Speed USB (USB 2.0) * You can connect a device which supports the Micro-USB standard to this product.
Power / Others	Power: Rechargeable battery pack NP-BN1 (sold separately), 3.6 V, or power supply via the USB terminal of a host device, 5 V
Power consumption (during shooting)	Approx. 1.4 W
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	−20°C to +60°C (−4°F to +140°F)
Dimensions (CIPA compliant)	68.4 mm × 65.1 mm × 57.6 mm (2 3/4 inches × 2 5/8 inches × 2 3/8 inches) (W/H/D)
Mass (CIPA compliant)	Approx. 193 g (6.8 oz) (including rechargeable battery pack NP-BN1 and “Memory Stick Micro” media) / Approx. 178 g (6.3 oz) (main unit only)
Microphone	Stereo
Speaker	Monaural
Exif Print	Supported
PRINT Image Matching III	Supported

Dimensions



Unit: mm (inches)

Notes on using the camera

Notes on using the camera

- Use a nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the plug from the wall outlet (wall socket) immediately if any malfunction occurs while using the camera.
- Attach the camera so that the tripod socket is directed downwards when shooting.
- The tripod socket and peripheral parts of the camera are designed for attaching to a tripod. If the camera is attached to an object other than a tripod, Sony will not guarantee the strength.

Temperature of the camera

When using the camera continuously, the temperature of main unit or battery becomes high. This is not a malfunction.

Over temperature protection function

To protect the camera, the power may turn off automatically or recording movies may not be available depending on temperature of the camera or the battery. In this case, turn off the power and wait until the temperature of the camera or the battery is sufficiently cool. If not sufficiently cooled, the power may turn off when turned on again or recording movies may not be available.

The recorded contents cannot be guaranteed

Sony will not be liable for the recorded contents that cannot be recorded or played due to failure of the digital still camera or memory cards.

About database files

When you insert a memory card without a database file into the camera and turn on the power, part of the memory card capacity is used to automatically create a database file. It may take some time before you can perform the next operation.

If a database file error occurs, import all images to a computer, then format the memory card by using the camera.

Notes on shooting

- Before you start shooting, take a test shot to make sure that the camera is working correctly.
- The camera is not dust-proof, splash-proof, or waterproof.
- Avoid exposing the camera to water. If water enters the camera, a malfunction may occur. In some cases, the camera cannot be repaired.

- Do not aim the camera at the sun or other bright light. It may cause malfunction of the camera.
- Do not use the camera near a location that generates strong radio waves or emits radiation. Otherwise, the camera may not properly shoot images.
- Do not shake or strike the camera. It may cause a malfunction and you may not be able to record images. Furthermore, the recording media may become unusable or image data may be damaged.
- When the battery level becomes low, the lens may stop moving. Insert a charged battery and turn on the camera again.

Do not use/store the camera in the following places

- In places that are extremely hot, cold or humid
In places such as in a car parked in the sun with shut windows, the camera body may become deformed and this may cause a malfunction.
- Storing under direct sunlight or near a heater
The camera body may become discolored or deformed, and this may cause a malfunction.
- In places subject to strong vibration
- In places subject to strong magnetism
- In sandy or dusty places
Be careful not to let sand or dust enter the camera.
This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

Notes on operating temperatures

The camera is designed for use in temperatures between 0°C and 40°C (32°F to 104°F). Shooting in extremely cold or hot places that exceed this range is not recommended.

About moisture condensation

- If the camera is suddenly taken from a cold to a warm location, moisture may form on the outer surface of the camera and/or inside of the camera. This is known as condensation. This moisture condensation may cause a malfunction of the camera.
- If moisture condensation occurs, turn off the camera and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

About image data compatibility

- The camera conforms to the DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).
- Sony does not guarantee that other equipment will play back images recorded with the camera.

Notes on the lens

- Exposing the lens to direct sunlight for long periods may cause malfunction. Be careful when placing the camera near a window or outdoors.
- Be careful not to bump the lens, and be careful not to apply force to it.

Memory card

Memory cards that can be used in the camera are listed below.

(A):

microSD memory card
microSDHC memory card
microSDXC memory card

(B):

“Memory Stick Micro” media
“Memory Stick Micro” (Mark2) media

In this manual, the memory cards in group (A) are referred to as microSD memory card, and those in group (B), “Memory Stick Micro” media.”

- * “Memory Stick Micro” of up to 16 GB and microSD memory cards of up to 64 GB have been tested and proven to operate with the camera. When performing the firmware update of the camera, only a microSDHC memory card can be used.

Notes

- To ensure stable operations of the memory card, we recommend that you use this camera to format any memory card being used with this camera for the first time. Note that formatting will erase all data recorded on the memory card. This data cannot be restored. Be sure to backup any important data to a computer or other storage location.
- If you repeatedly record/delete images for a long period, fragmentation of data may occur on the memory card. Movies may not be able to be saved or recorded. In such a case, save the images to a computer or other storage location, then [Format].
- A memory card formatted with a computer is not guaranteed to operate with the camera.
- Data read/write speeds differ depending on the combination of the memory card and the equipment used.
- Data may be corrupted in the following cases:
 - When the memory card is removed or the camera is turned off during a read or write operation
 - When the memory card is used in locations subject to static electricity or electrical noise
- We recommend backing up important data to other storage locations such as hard disk of a computer.
- Do not attach a label on the memory card itself nor on a memory card adaptor.
- Do not touch the terminal section of the memory card with your hand or a metal object.
- Do not strike, bend or drop the memory card.
- Do not disassemble or modify the memory card.

- Do not expose the memory card to water.
- Do not leave the memory card within the reach of small children. They might accidentally swallow it.
- Insert a memory card that fits the memory card slot size. Otherwise, it will cause a malfunction.
- Do not use or store the memory card under the following conditions:
 - High temperature locations such as the hot interior of a car parked in direct sunlight
 - Locations exposed to direct sunlight
 - Humid locations or locations with corrosive substances present

“Memory Stick” media

The types of “Memory Stick” media that can be used with the camera are listed below. However, proper operation cannot be guaranteed for all “Memory Stick” media functions.

- “Memory Stick Micro” media
- “Memory Stick Micro” (Mark2) media

The above “Memory Stick Micro” media and “Memory Stick Micro” (Mark2) media are equipped with MagicGate functions. MagicGate is copyright protection technology that uses encryption technology. Data recording/playback that requires MagicGate functions cannot be performed with the camera.

For the latest information about available “Memory Stick” media, refer to the “List of available “Memory Stick” media” at the website below:

<http://www.sony.jp/memorystick/compatible/>

Cleaning

Wiping the lens

If the lens becomes dirty (fingerprints, dust, etc.), gently wipe clean with a soft cloth.

Cleaning the lens

Do not expose the camera to chemical products such as thinner or benzine.

When cleaning the lens surface, remove dust, etc. with a commercially available blower. If the lens becomes very dirty, apply a lens cleaner on a soft cloth or a lens cleaning tissue and wipe the lens in a circular motion from the center of the lens. Do not apply a lens cleaner on the lens surface directly.

Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water or lukewarm water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

- Do not expose the camera to chemical products such as thinner, benzene, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the camera with any of the above on your hand.
- Do not leave the camera in contact with rubber or vinyl for a long time.

Notes on charging the battery

- If the charge lamp of the camera flashes during charging, remove the battery being charged, and then insert a separate new battery into the camera to check that it charges correctly. If the battery is charged correctly, a battery error may have occurred.
- If the charge lamp flashes again, this indicates that the charging has stopped temporarily and is on standby because the temperature is outside of the recommended temperature for charging. When the temperature returns to the appropriate range, charging resumes and the charge lamp lights up again. We recommend charging the battery in an ambient temperature between 10°C to 30°C (50°F to 86°F).

Notes on the battery

About the supported battery

NP-BN1 (sold separately) can be used for this camera.

About charging the battery

- Charge the battery pack (sold separately) before using the camera for the first time.
- You can charge the battery even if it is not completely discharged. In addition, you can use the battery even if it is only partially charged.
- Charge the battery in an ambient temperature between 10°C to 30°C (50°F to 86°F). The battery may not be effectively charged in temperatures outside this range.

About battery life

- The battery life is limited. The battery capacity decreases over time and through repeated use. If the available time of the battery is shortened significantly, it is probably time to replace it with a new one.
- The battery life varies according to how it is stored, the operating conditions, and environment in which each battery pack is used.

Effective use of the battery


- If the ambient temperature is low, the available time of the battery is shortened because the battery performance decreases. To ensure longer battery use we recommend that you put the battery pack in a pocket close to your body to warm it up, and insert it in the camera immediately before you start shooting. If there are any metal objects such as keys in your pocket, be aware of short circuits.

- The battery will run out quickly if you use the zoom frequently.
- We recommend having spare battery packs handy for two times to three times the expected shooting time, and taking test shots before taking the actual shots.
- The battery pack is not water-resistant. Do not expose the battery pack to water.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.
- You may not be able to turn on the camera or the battery may not be effectively charged if the terminal section of the battery is dirty. In this case, wipe any dust off lightly using a soft cloth or a cotton swab to clean the battery.

How to store the battery pack

- If you do not use the battery pack for a long period, to maintain the battery's function, charge the battery and then fully discharge it in the camera at least once a year. After that, store the camera in a dry and cool place.
- To prevent staining the terminal, short-circuiting, etc., be sure to use a plastic bag, etc. to keep the battery pack away from metal materials when carrying or storing it.

Trademarks

- Memory Stick™, , Memory Stick Micro, MEMORY STICK MICRO are trademarks or registered trademarks of Sony Corporation.
- microSDXC logo is a trademark of SD-3C, LLC.
- In addition, system and product names used in this manual are, in general, trademarks or registered trademarks of their respective developers or manufacturers. However, the ™ or ® marks are not used in all cases in this manual.



License

Notes on the License

This camera comes with software that is used based on licensing agreements with the owners of that software. Based on requests by the owners of copyright of these software applications, we have an obligation to inform you of the following.

THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL USE OF A CONSUMER OR OTHER USES IN WHICH IT DOES NOT RECEIVE REMUNERATION TO

- (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD (“AVC VIDEO”) AND/OR
- (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE [HTTP://WWW.MPEGLA.COM](http://www.mpegla.com)

About GNU GPL/LGPL applied software

The software that is eligible for the following GNU General Public License (hereinafter referred to as “GPL”) or GNU Lesser General Public License (hereinafter referred to as “LGPL”) is included in the camera. This informs you that you have a right to have access to, modify, and redistribute source code for these software programs under the conditions of the supplied GPL/LGPL. Source code is provided on the web. Use the following URL to download it. <http://oss.sony.net/Products/Linux/> We would prefer you do not contact us about the contents of source code.

About license of open source software

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ARBITRATION INSTRUCTIONS

To begin arbitration, either you or SONY must make a written demand to the other for arbitration. The arbitration will take place before a single arbitrator. It will be administered in keeping with the Expedited Procedures of the Commercial Arbitration Rules, and the Supplementary Proceedings for Consumer-Related disputes when applicable ("Rules") of the American Arbitration Association ("AAA") in effect when the claim is filed. You may get a copy of AAA's Rules by contacting AAA at (800) 778-7879 or visiting www.adr.org.

The filing fees to begin and carry out arbitration will be shared between you and SONY, but in no event shall your fees ever exceed the amount allowable by the special rules for Consumers Disputes provided for by AAA, at which point SONY will cover all additional administrative fees and expenses. This does not prohibit the arbitrator from giving the winning party their fees and expenses of the arbitration when appropriate pursuant to the Rules. Unless you and SONY agree differently, the arbitration will take place in the county and state where you live, and applicable federal or state law shall govern the substance of any DISPUTE. The Federal Arbitration Act, 9 U.S.C. § 1, et seq., will govern the arbitration itself and not any state law on arbitration. The arbitrator's decision will be binding and final, except for a limited right of appeal under the Federal Arbitration Act. The arbitrator may award declaratory or injunctive relief only in favor of the party seeking relief, and only to the extent necessary to provide relief warranted by that party's individual claim. Any court with jurisdiction over the parties may enforce the arbitrator's decision.

SMALL CLAIMS EXCEPTION

Despite the provisions set forth above, you have the right to litigate any DISPUTE in small claims court or other similar court of limited jurisdiction, to the extent the amount at issue does not exceed \$15,000, and as long as such court has proper jurisdiction and all other requirements (including amount in controversy) are satisfied.

CLASS ACTION WAIVER

YOU UNDERSTAND AND ACKNOWLEDGE THAT BY AGREEING TO BINDING ARBITRATION, YOU ARE GIVING UP THE RIGHT TO LITIGATE (OR PARTICIPATE IN AS A PARTY OR CLASS MEMBER) ANY DISPUTES IN COURT BEFORE A JUDGE OR JURY. ANY DISPUTE RESOLUTION PROCEEDING WILL BE CONDUCTED ONLY ON AN INDIVIDUAL BASIS, AND BOTH PARTIES AGREE NOT TO HAVE ANY DISPUTE HEARD AS A CLASS ACTION, REPRESENTATIVE ACTION, CONSOLIDATED ACTION, OR PRIVATE ATTORNEY GENERAL ACTION, UNLESS ALL PARTIES INVOLVED IN THE DISPUTE SPECIFICALLY AGREE TO DO SO IN WRITING FOLLOWING INITIATION OF THE ARBITRATION.

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MISCELLANEOUS

Any DISPUTE determined not subject to arbitration and not initiated in small claims court will be litigated by either party in a court of competent jurisdiction in either the superior court for the County of San Diego or in the United States District Court for the Southern District of California.

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(Package List)

mDNSResponder-108.6 (mDNSResponderPosix only)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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wpa_supplicant and hostapd

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Source code files were moved around in v0.6.x releases and compared to earlier releases, the programs are now built by first going to a subdirectory (wpa_supplicant or hostapd) and creating build configuration (.config) and running 'make' there (for Linux/BSD/cygwin builds).

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